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NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

From the INTERNATIONAL BUREAU
To: 106. 5, 29 IMY INTERNATIONAL
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Date of mailing (day/month/year) 18 May 2006 (18.05.2006)	· · · · · · · · · · · · · · · · · · ·
Applicant's or agent's file reference PCT04005	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/008447	International filing date (day/month/year) 16 June 2004 (16.06.2004)
Applicant Y/	AMAUCHI CORPORATION et al

1.	Transmittal of	of the	translation	to	the applicant.
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report or patentability (Chapter I).
palemanny (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

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PATENT COOPERATION TREATY

Translation

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT04005	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/month/year)	Priority date (day/month/year)			
PCT/JP2004/008447	16.06.2004	02.07.2003			
International Patent Classification (IPC) or nat					
F16C13/00, B29D31/00					
,,,,	, 22101, 02				
Applicant					
YAMAUCHI CORPORATION	et al				
This report is the international preli- under Article 35 and transmitted to the state of th		is International Preliminary Examining Authority			
2. This REPORT consists of a total of	6 sheets, include	ding this cover sheet.			
3. This report is also accompanied by A	ANNEXES, comprising:				
a. (sent to the applicant and	d to the International Bureau) a total of	sheets, as follows:			
		en amended and are the basis for this report and/or			
		Rule 70.16 and Section 607 of the Administrative			
the disclosure in the		considers contain an amendment that goes beyond ted in item 4 of Box No. I and the Supplemental			
Box.					
b (sent to the International	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))				
	. containing a sequence listing and/or tables				
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relat	ing to the following items:				
Box No. I Basis of the	e report				
Box No. II Priority					
Box No. III Non-establ	ishment of opinion with regard to novelty, inv	entive step and industrial applicability			
Box No. IV Lack of uni	ity of invention				
<u> </u>		ovelty, inventive step or industrial applicability;			
citations an	citations and explanations supporting such statement				
Box No. VI Certain doc	cuments cited				
Box No. VII Certain def	Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application					
Date of submission of the demand	Date of completion of	this report			
Name and mailing address of the IPEA/JP	Authorized officer	Authorized officer			
Facsimile No.	Telephone No.				

International application No.
PCT/JP2004/008447

Box	c No. I		Basis of the report		
1.			to the lunguage, this report is based on the internation der this item.	nal application in the language in whi	ch it was filed, unless otherwise
			eport is based on translations from the original langua is the language of a translation furnished for the purp		•
		\sqcup	international search (Rule 12.3 and 23.1(b))		
			publication of the international application (Rule 12.4)	1	
			international preliminary examination (Rule 55.2 and/	or 55.3)	
2.	recei		to the elements of the international application, this ffice in response to an invitation under Article 14 are		
	\boxtimes	the int	ernational application as originally filed/furnished		
		the de	scription:		
		pages			as originallÿ filed/furnished
		pages'	4	received by this Authority on	
		pages:	*	received by this Authority on	
		the cla	aims:		
		nos.			as originally filed/furnished
		nos.*		as amended (together wi	th any statement) under Article 19
		nos.*		received by this Authority on	
		nos.*		received by this Authority on	
		the dra	awings:		
		sheets			as originally filed/furnished
		sheets	*	received by this Authority on	
		sheets	#	received by this Authority on	
		a sequ	ence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Listin	ng.
3.		The ar	mendments have resulted in the cancellation of:		
			the description, pages		
			the claims, nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
4.			eport has been established as if (some of) the amend ave been considered to go beyond the disclosure as fil		
			the description. pages		
			the claims. nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
*	If ite	m 4 app	olies, some or all of those sheets may be marked "supe	rseded."	

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Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; opporting such statement	
1.	Statement			_
	Novelty (N)	Claims	1-13	_ YES
		Claims		_ №
	Inventive step (IS)	· Claims		_ YES
	•	Claims	1-13	_ NO
	Industrial applicability	y (IA) Claims	1-13	_ YES
		Claims ·		_ мо
2.	Citations and explanation	s (Rule 70.7)		
	Document 1:	JP 1-260	0092 A (Yamauchi Kabushiki Kaisha),	
		17 Octob	per 1989, entire text	
	Document 2:	JP 57-14	6912 A (Yamauchi Gomu Kogyo	
		Kabushik	ci Kaisha), 10 September 1982, page	
		3, upper	left column, line 19 to upper right	
		column,	line 18; page 4, upper left column,	
		line 15	to lower left column, line 1 .	
	Document 3:	JP 4-191	.516 A (Kabushiki Kaisha Masuda	
		Seisakus	sho), 9 July 1992, page 4, upper	
		right co	olumn, lines 1 to 14	
`~	Document 4:	JP 57-35	095 A (Matsushita Electric Works,	
		Ltd.), 2	25 February 1982, entire text	
	Document 5:	JP 57-24	216 A (Fuji Photo Film Co., Ltd.), 8	
		February	1982, page 2, upper left column,	
		lines 1	to 8	
	The in	vention se	et forth in claims 1 to 3, 7, 11, and	
			an inventive step in the light of	
			ext) cited in the international	
			ent 2 (page 3, upper left column,	
	-		nt column, line 18 and page 4, upper	
			to lower left column, line 1) cited	

in the international search report, and document 3 (page

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

4, upper right column, lines 1 to 14) cited in the international search report.

Document 2 discloses a method of manufacturing a non-woven fiber aggregate impregnated with a thermosetting resin for use as a resin roller, wherein the non-woven fiber aggregate is impregnated with a thermosetting resin in liquid state as said aggregate is being conveyed.

Document 3 discloses the use of a fiber material bonded with a binder as a tape-like non-woven fiber aggregate for use as a resin roller.

Meanwhile, each of the inventions disclosed in documents 1 to 3 pertains to a resin roller having a non-woven fiber aggregate, and thus, a person skilled in the art could easily conceive of employing the feature of impregnating a non-woven fiber aggregate with a thermosetting resin in liquid state as said aggregate is being conveyed, disclosed in document 2, and the feature of using a fiber aggregate comprising a fiber material bonded with a binder, disclosed in document 3, in the resin roller manufacturing method disclosed in document 1.

The invention set forth in claims 4 to 6 does not involve an inventive step in the light of documents 1 to 3 and newly cited document 4 (entire text).

Document 4 discloses a feature wherein a paper base material is impregnated with a thermosetting resin, and the viscosity of the thermosetting resin is lowered as the paper base material is being conveyed, thereby promoting saturation of the paper base material with the thermosetting resin.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Meanwhile, non-woven fiber aggregates according to the inventions disclosed in documents 1 to 3 and the paper base material according to the invention disclosed in document 4 all have the shared features of being formed with no woven fibers and of being impregnated with a thermosetting resin. Therefore, a person skilled in the art could easily conceive of adapting the inventions disclosed in documents 1 to 3 by lowering the viscosity of the thermosetting resin as the non-woven fiber aggregate is being conveyed, thereby promoting saturation of the non-woven fiber aggregate with the thermosetting resin.

Moreover, setting the timing of the lowering of the viscosity of the thermosetting resin to after the non-woven fiber aggregate has been conveyed and when it is being wound onto a roller core is merely a feature fittingly determined at the discretion of a person skilled in the art.

The invention set forth in claims 8 to 10 does not involve an inventive step in the light of documents 1 to 3. Document 2 discloses a feature wherein a non-woven fiber aggregate is manufactured using a fiber material in a wet process, namely, sheet making; a feature wherein the non-woven fiber aggregate must have a tensile strength of at least a specified a value; and a feature wherein the non-woven fiber aggregate has a basis weight range that overlaps with 30 to 100 g/m^2 .

The invention set forth in claim 13 does not involve an inventive step in the light of documents 1 to 3 and document 5 (page 2, upper left column, lines 1 to 8)

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
cited	in the international search report. Document 5
disclo	ses the formation of an outer tube over a lower
wound	layer without an adhesive material layer interposed
thereb	etween.
•	
i	